Security Alarm System

Printed in Hong Kong
PA: OI-AL/EN-1301-V4.0

Features

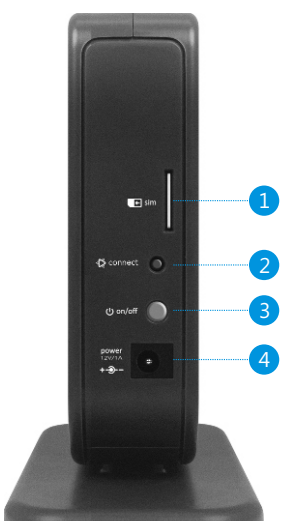
- ARM + Auror CPU
- Embedded breathing lamp
- Support 50 wireless sensors and 10 remote controls
- Built-in 1,000,000 RF codes combination maintains high reliability
- Cellular communicator, simple operation
- Store 5 alarm phone numbers
- Exit & entry delay
- SMS alert for low battery of two-way accessories
- Arm & disarm the system by SMS or free phone call
- Remote monitoring site via phone
- Built-in 110dB siren, deterring intruders on site
- Built-in 4 pcs of AA 1.5V/1800mAh rechargeable battery enables 12-hour standby
- SMS alerts for power failure, power recovery and low power
- 850/900/1800/1900MHz GSM frequency, applicable for universal

Control Panel Features

1. Power/Arm Status/Low Power LED Indicator
2. GSM Signal/Connect/Alarm LED Indicator
3. Panic Button
4. Breathing Lamp
5. Stand
6. Monitoring MIC

The Back Side of the Control Panel

1. Sim Card Slot
2. Connect Button
3. Power On/Off
4. Adapter Interface



LED Indication

1. Power/Arm Status/
   Low Power LED Indicator
   Disarm in green.
   Arm in yellow.
   Lower power flashes in green.

2. GSM Signal/Connect/
   Alarm LED Indicator
   GSM network searching: Fast flashes in green.
   GSM signal is normal: Slow flashes in green.
   Connect LED: Lights in red.
   Alarm LED: Fast flashes in red.

Connect Accessories

Press connect button , the connect LED lights on, then trigger the accessory once, it will be connected after a beep.

Once two beeps are heard, the accessory has been connected before.

The first connected accessory is in Zone 1, the second one in Zone 2, and so on.

Connect Wireless Siren

The newly-added wireless siren can be used after connecting to the control panel.

Operation:

Press the Connect Button of the wireless siren for 0.5 second, the Connect Button LED indicator lights on, and then press the SOS Button on the control panel, the siren will be connected after one beep is heard.

Testing: Press the Arm Button on the remote control, to make sure that the internal siren and wireless siren both beep once, the connection is successful. If not, the connection fails, please reconnect them.

Once the intruder is detected, both internal siren and wireless siren will hoot to deter the illegal intruder. (The siren will be off in 5 minutes as the default setting). At the same time, the alarm system will send SMS and auto dial to users.

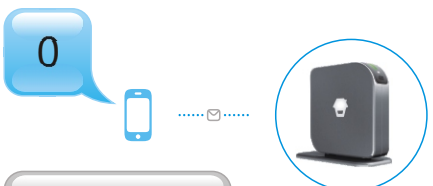
SMS Operation

Insert a sim card to the control panel,
then send an SMS of "?" to the sim card number,
the operation guide message will be replied.
You can control the alarm system
by following the guide message:

'0' Disarm
'1' Arm
'2' Call-back monitor
'3' Store phone numbers
'4' Change information of alarm zones
'5' Set delay time
'6' Set siren volume and ringing time

Disarm

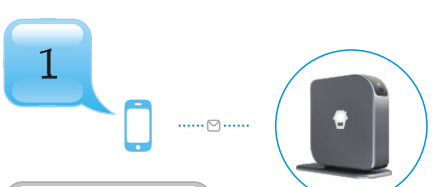
To turn off the alarm system



System disarmed.

Arm

To turn on the alarm system



System armed.

Call-back Monitor

Send "2" to the sim card number,
the alarm will call back. Pick up the phone
and start to monitor the site.

Store Phone Numbers

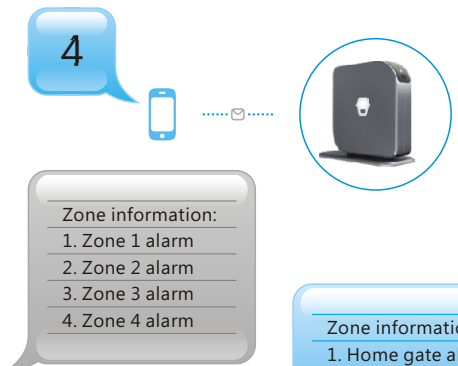
TEL:
1.
2.
3.
4.
5.

Forward > Edit

TEL:
1. 67890033
2. 67890022
3. 67890011
4. 67890000
5.

Store phone numbers
successfully.

Change Information of Alarm Zone



Notice! Due to SMS character limit, only 4 zones contents can be edited. At most 30 English characters for each line. Other alarm zones are fixed as Zone 5 alarm, Zone 6 alarm and so on.

Set Delay Time

Notice! Once the function is setup, when you arm the system, one beep will be heard every second to remind the user to leave. The reminding rhythm will be speeded up in the last 15 seconds. Once the intruder is detected, the alarm will be delayed accordingly.

Set Siren Volume and Ringing Time

Siren volume (0 Mute, 1 Low, 2 Medium, 3 High) :
2
Siren ringing time (1-9min) :
5

Forward > Edit

Siren volume (0 Mute, 1 Low, 2 Medium, 3 High) :
3
Siren ringing time (1-9min) :
3

Set siren volume and ringing time successfully.

SMS Alert for Low Battery of Accessories

(available for two-way accessories such as DWC-102 and PIR-900/910)

SMS will be sent for 1-4 zones with its zone name as "Zone name + low battery".

Bedroom PIR low battery.

SMS alert for 5~50 zones will be "Zone number + low battery".

Zone 10 low battery.

SMS Alert for Tamper Alarm of Accessories

(available for two-way accessories such as DWC-102 and PIR-900/910)

SMS will be sent for 1-4 zones with its zone name as "Zone name + tamper alarm".

Bedroom PIR tamper alarm.

SMS alert for 5~50 zones will be "Zone number + tamper alarm".

Zone 10 tamper alarm.

Arm & Disarm by Free Phone Call

Arm

Call the control panel number, hang up when hearing the ring tone. The panel will call back. The user hangs up the phone directly to arm the system.

Disarm

Call the control panel number, hold on until the panel hangs up the call.
The panel will not call back. System is disarmed.

Emergency Call

Press "SOS" button on the control panel or the remote control, the system will alarm immediately and send SMS of "Emergency Call".

Turn On/Off the Breathing LED

Send text 30 to SIM card number of control panel to turn off the breathing LED. (Notice! No SMS reply from control panel.)
Send text 31 to SIM card number of control panel to turn on the breathing LED. (Notice! No SMS reply from control panel.)

Clear Accessories

Press down the connect button until 2 beeps are heard. All the connected accessories will be cleared.

Language Setup

The SMS language can be modified by sending SMS code to the SIM card of the alarm system.

0086	Chinese
0001	English

Restore Factory Setting

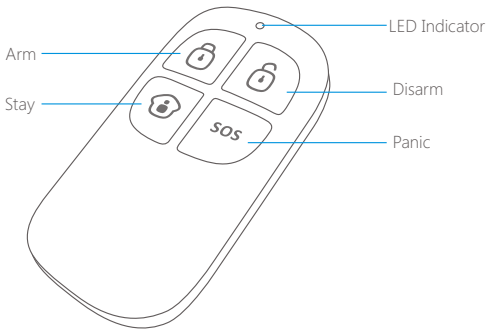
Press connect button and SOS button on the control panel at the same time, after three beeps, all settings are restored to default.

Specifications

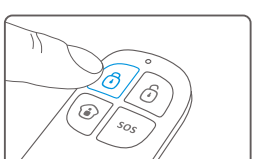
Product name :
GSM/SMS Security Alarm System
Model No. :
CG-8800G3
Control panel's power supply :
Input: AC 110-240V/50-60Hz
Output: DC 12V/500mA
GSM working frequency :
850/900/1800/1900MHz
Standby current :
80mA
Alarm current :
170mA
Internal battery backup :
AA 1.5V/1800mAh rechargeable battery x 4 pcs
Internal siren :
110dB
Allowed amount of expandable wireless accessories
10 PCS Wireless Remote Control
and 50 PCS Wireless Sensors

Radio frequency
315MHz/433MHz (±75KHz)
Housing material
ABS plastic
Operation condition:
Temperature: -10ºC~55 ºC
Humidity: ≤ 80%(non-condensing)
Size (L x W x H) :
Panel : 12.6×3.6×13cm
Stand : 15×7×1cm

Wireless Remote Control



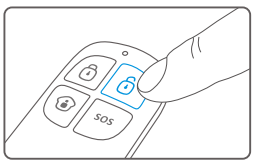
Arm



Press {Arm } to arm the alarm panel and the LED indicator lights on (siren hoots once), the system enters Arm state.

If there comes an intruder, the siren will hoot to deter the intruder. (The siren turns off after ringing for 5 minutes as default setting.) At the same time, the system dials the pre-stored phone numbers automatically.

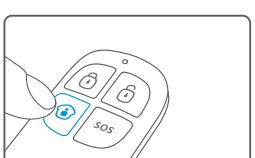
Disarm



Press {Disarm } to disarm the alarm panel and the LED indicator blacks out (siren hoots twice), the system is disarmed.

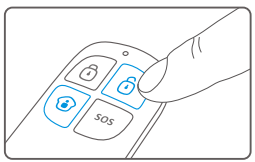
When intruders are detected, siren will keep hooting. Press {Disarm } to stop siren hooting.

Home Mode



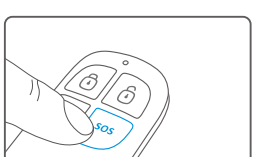
Press {Stay } button on the remote control, the system state LED is on. All the sensors in other zones are armed except the motion detector in zone A which is disarmed so that user can move freely at home.

Mute Mode



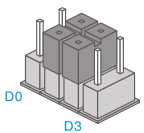
Press {Stay } button on the remote control, then press {Arm } or {Disarm } button, the siren keeps silent to finish the operation. The system is armed or disarmed in mute without disturbing other people.

Emergency Call

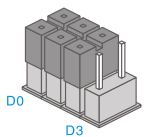


No matter what state the control panel is in, once SOS button on the remote control is pressed, the system immediately goes into emergent alarming state.

Home Mode Zone Setup



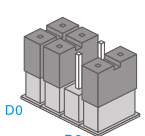
Home Mode Zone



Normal Zone

The PIR motion detector is set in Home Mode Zone in default.

Users should reconnect the detector with the control panel after the zone is changed.



24-H Zone

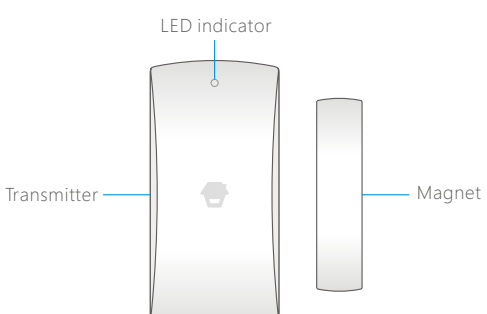
Note: It is recommended to set smoke detector, gas detector and outdoor beam sensor at 24-H zone.

Wireless Door/Window Contact

Features

The DWC-100 is a Door/Window Contact that can be installed on doors, windows, and any other objects that open and close. The sensor transmits signals to the control panel when a magnet mounted near the sensor is moved away. External input for wired accessory is available at the N/C interface. The tamper protection ensures that sabotage attempts to move the contact will result in an alarm activation.

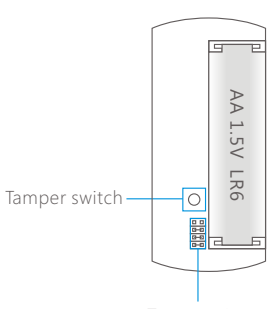
Appearance



LED Indication

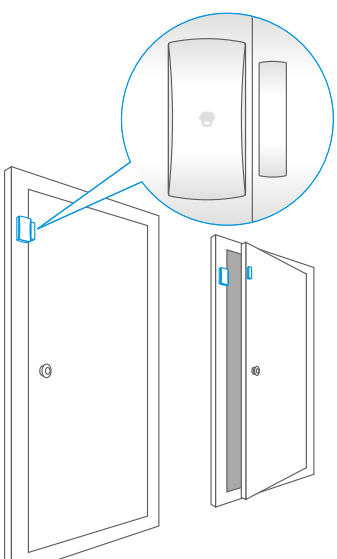
LED flashes once: Door/window is opened and transmitter sends signal to the control panel.
LED flashes quickly: Low power indication, please change battery as soon as possible.

PCB Layout



Installation & Notice

- Open the case and remove the battery activation strip.
- Mount the sensor on the door frame and the magnet on the door.
- Make sure the magnet is on the right side of the transmitter
- Place the transmitter in the desired location, mount the magnet no more than 1cm away from the transmitter and secure the transmitter and magnet with double-sided tapes or screws.
- Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.



Specifications

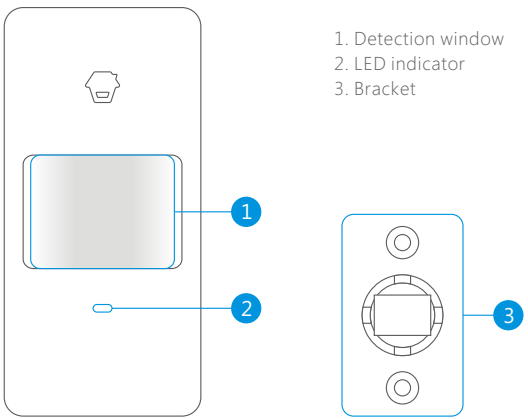
Power supply
DC 1.5V (AA 1.5V LR6 Battery x 1pc)
Static current
≤ 30uA
Alarm current
≤ 40mA
Transmitting distance
≤80m (in open area)
Radio frequency
315MHz/433MHz (±75KHz)
Housing material
ABS plastic
Operating temperature
-10°C~55°C
Relative humidity
≤80% (non-condensing)
Transmitter dimensions (LxWxH)
71 x 34 x 17.5mm
Magnet dimensions (LxWxH)
51 x 12 x 13.5mm

Wireless PIR Motion Detector

Features

PIR-900 is a high performance wireless P.I.R. motion detector. It consists of digital dual-core fuzzy logic infrared control chip and intelligent analysis which effectively identify interference signals from body movement signals and reduce false alarm rate. With automatic temperature compensation and anti-air turbulence technology, it easily adapts to environmental changes. The detector also has the advantages of energy saving, reliability and easy installation.

Appearance

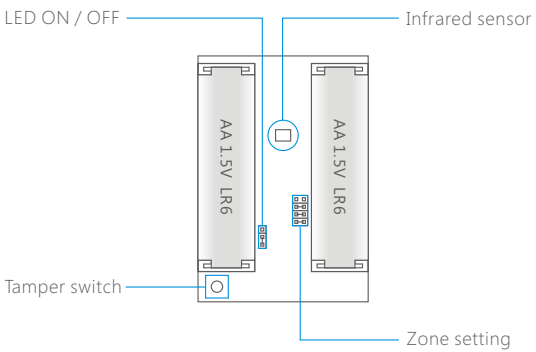


1. Detection window
2. LED indicator
3. Bracket

LED Indication

Flash continuously: Under the self-testing state.
Flash once: Intruder is detected.
Flash twice: Self-testing is finished, enters the working mode.
Flash once per 3 seconds: Under voltage indication, please change the batteries immediately.(User will get alert SMS about the low battery if the PIR detector is connected to the GSM alarm system.)

PCB Layout

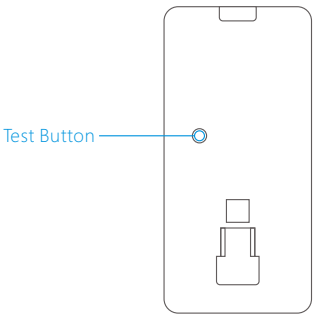


Infrared sensor: It detects the infrared rays released by human body motion, please don't touch the surface and always keep it clean.
Tamper switch: Once the case is opened in working state, the tamper switch will be triggered and then generates an alarm signal.

Usage

Open the case and remove the battery activation strip to activate batteries. It will start self-testing for one minute.

Mode Setting



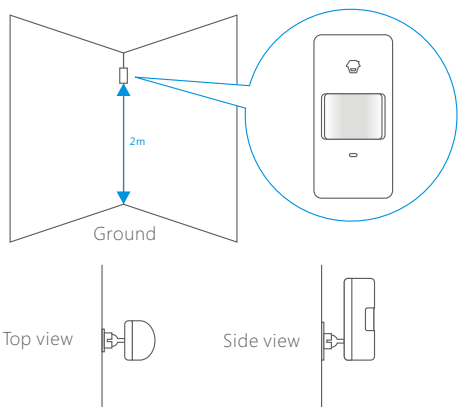
Testing mode:
After self-testing, press the test button, the sensor enters testing mode, and detects once every 10 seconds. After 3 minutes, the LED flashes twice, and the sensor enters the working mode.

Working mode:
In working state, if the sensor is triggered more than twice within 3 minutes, it will enter sleeping mode to save power. After no movement within next 3 minutes, the sensor goes back to the working mode.

Connect to alarm panel:
Press the connect key on the alarm panel, and then press the test button of the sensor twice to send alarm signal. When one beep is heard, they are connected.
To check if they are connected successfully, arm the system, and trigger the sensor again, if there is an alarming, the connection is successful.

Installation & Notices

Avoid mounting the detector close to windows, air conditioner, heater, refrigerator, oven, sunshine and places where the temperature changes fast or the air stream flows frequently. If two detectors are installed in the same detection scope, please adjust the location to avoid interference and false alarm.



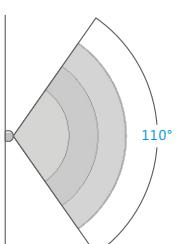
Fix the bracket on the wall with screws and attach the detector to the bracket. Adjust installation height or bracket to change the detection distance and angle. It is recommended to mount it at the height of 2m from the ground.

The detector is more sensitive to the cross movement than to the vertical movement, so the performance of detector is best when the detection direction is vertical to the walking direction of people.

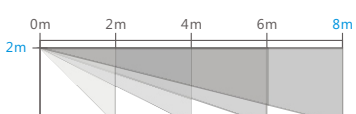
Testing (Walk Test)

A. After installation, power on the detector. After one minute self-testing, press the test button, walk in the scope (from left to right or from right to left) and watch the LED indicator to make sure the detector is working.
B. The LED indicator flashes once when body movement is detected.
C. Adjust the detector angle accordingly to achieve the best detection effect.

Detection Scope



Top view



Side view

Specifications

Power supply
DC 3V (AA 1.5V LR6 Battery x 2 pcs)
Static current
≤ 50uA
Alarm current
≤ 9.5mA
Detection scope
8m/110°
Transmitting distance
≤ 80m (in open area)
Radio frequency
315MHz/433MHz (± 75KHz)
Housing material
ABS plastic
Operation Condition
Temperature: -10°C~55°C
Relative humidity: ≤80% (non-condensing)
Detector dimensions (L x W x H)
108 x 52 x 36.8 mm
Bracket dimensions (L x W x H)
52 x 30 x 26.5 mm